



Town of Eastham Harbor and Waterways Plan Engineering and Environmental Assessment

October 24, 2019

Adam Finkle
Coastal Scientist
afinkle@whgrp.com
508-495-6272

Joel Kubick
Coastal/Civil Engineer
jkubick@whgrp.com
508-495-6235



Collins Landing

Existing Conditions



- **Access:** Provided by a wide, steep paved driveway off of Route 6.
- **Usage:** Primarily used by commercial fishermen.
- **Parking:** 4 total spaces. Vehicular access very limited.
- **Existing Infrastructure:** 16-foot-wide paved ramp. Existing retaining wall is failing.
- **Stormwater:** There are no stormwater collection structures on the property.
- **Coastal Resource Areas:** Coastal beach, low-lying saltmarsh, coastal bank.

Hemenway Landing

Existing Conditions



- **Access:** Hemenway Rd. provides access to the paved ramp and parking area.
- **Usage:** Primarily recreational boaters with some commercial fisherman launching tenders to access boats at Nauset inlet, aquaculture sites, etc.
- **Parking:** 11 trailer spaces, 10 angled vehicle spaces, 3 handicap spaces.
- **Existing Infrastructure:** 20-foot-wide ramp for launching small craft.
- **Stormwater:** No stormwater collection/treatment structures.
- **Coastal Resource Areas:** Coastal beach, coastal bank, salt marsh.

Salt Pond Landing

Existing Conditions



- **Access:** Provided by a narrow, paved driveway off of Route 6.
- **Usage:** Used by recreational shellfisherman on Sundays, kayakers, hikers.
- **Parking:** 7 parking spaces and 1 handicapped space. Pavement is degraded.
- **Existing Infrastructure:** A gravel ramp on the north side of the parking area. Kayak rack on edge of path. Concrete retaining wall appears stable.
- **Stormwater:** No stormwater collection/treatment structures.
- **Coastal Resource Areas:** Saltmarsh and coastal bank.

Rock Harbor - Eastham Shore

Existing Conditions



- **Access:** Dyer Prince Road occasionally floods; 2 culverts frequently overtop.
- **Usage:** Comm. fishermen and rec. boaters utilizing Town docks or State ramp.
- **Parking:** Municipal parking is limited to a small dirt lot.
- **Existing Infrastructure:** State managed and maintained boat ramp. 2 Town managed and maintained piers, floating docks, and boat slips.
- **Stormwater:** No stormwater infrastructure was identified on site.
- **Coastal Resource Areas:** Salt marsh along shore, coastal bank, coastal dune constructed using dredge spoils.

Evaluation of Observed Infrastructure

General Findings

- **Capacity:** Ability of parking and services to meet current need varied from site to site. In most cases, limited ability to expand to accommodate future use.
- **Condition:** Existing pavement and/or infrastructure are in disrepair at multiple sites, requiring maintenance, repair, or replacement.
- **Funding:** Where feasible, investing in routine maintenance and repairs will help to improve the usability and longevity of assets at each site while avoiding high cost of redesign-retrofit-reconstruction.
- **Future Need:** In most cases, site constraints limit the ability to expand to accommodate increased future use.
- **Operation and Maintenance:** Routine maintenance and grading will help to extend the life of paved and unpaved assets, boat ramps, and parking.
- **Public Safety:** Failing infrastructure and lack of signage pose risks to public safety.
- **Resilience:** All sites submerged during 100-year storm event. Collins, Salt Pond, and Rock Harbor sites inundated during as little as a 5-year return period storm.
- **Innovation:** [Existing conditions present Town with opportunities for improvement.](#)

Conceptual Alternatives and Next Steps

All Town Landings and Rock Harbor

- **Site Survey**
- **Identify Ownership**
- **Apply Statewide Model Data**
- **Maintain Existing Paved Infrastructure**
- **Improve Stormwater Infrastructure**
- **Shoreline Stabilization**
- **Improved Signage**
- **Small Boat Storage**
- **Commercial Fishing Interests**
 - Solicit feedback from the commercial fishing community to better understand needs.
 - Consider dedicated commercial parking spaces and/or loading/unloading zones.
 - Consider developing policies, procedures, and/or dedicated areas for the staging/storage of equipment.
- **Natural Resources Management**

Site-Specific Conceptual Alternatives

- **Collins Landing**

- Consider repairing or replacing seawall;
- Explore land acquisition or easement to implement additional shoreline stabilization, parking.
- Consider replacing pavement along the ramp with ACBM or, repave existing boat ramp with ACBM apron.

- **Hemenway Landing**

- Consider replacing pavement along the ramp with ACBM or, repave existing boat ramp with ACBM apron.
- Consider extending boat ramp seaward to minimize impacts to resource areas;
- Consider upgrades to improve kayak launch/retrieval and to minimize conflict.

- **Salt Pond Landing**

- Consider replacing pavement along the ramp with ACBM or, repave existing boat ramp with ACBM apron.

- **Rock Harbor**

- Evaluate (2) Dyer Price Road culverts;
- Coordinate with State to develop long term management plan;
- Consider a dredge feasibility study for approach channel to Rock Harbor;
- If more berthing added, explore alternatives for additional parking;
- Constructing a bulkhead abutting the salt marsh may prove difficult to permit. Conduct an alternatives analysis and/or feasibility study to explore options for increased dockage.

Questions? Initial Feedback?



- Once conceptual alternatives have been prioritized, the Woods Hole Group will develop detailed descriptions, expected permitting requirements and permitting costs, and conceptual design imagery.